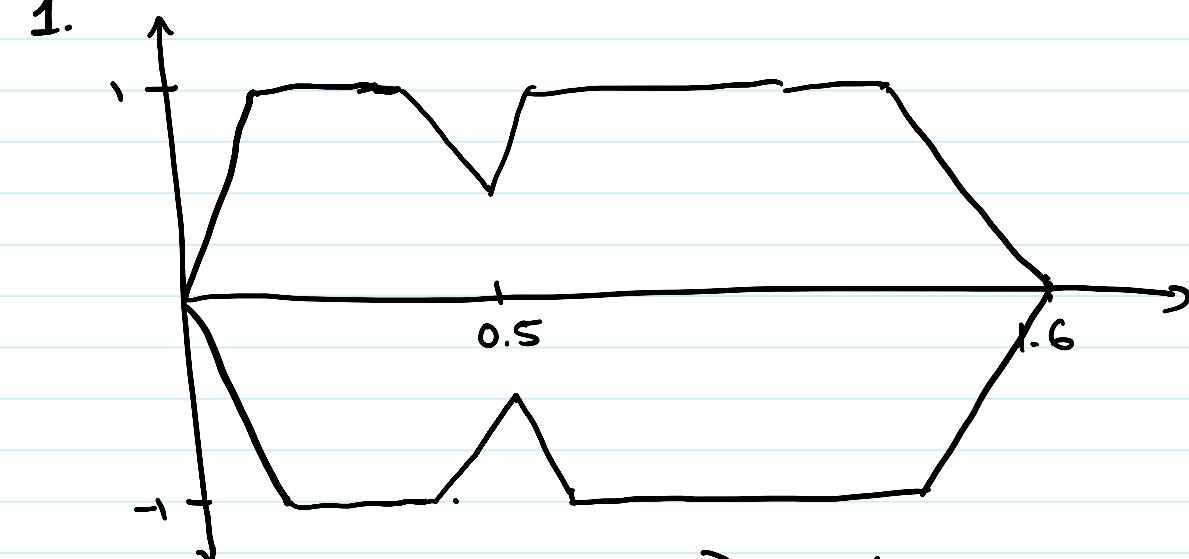


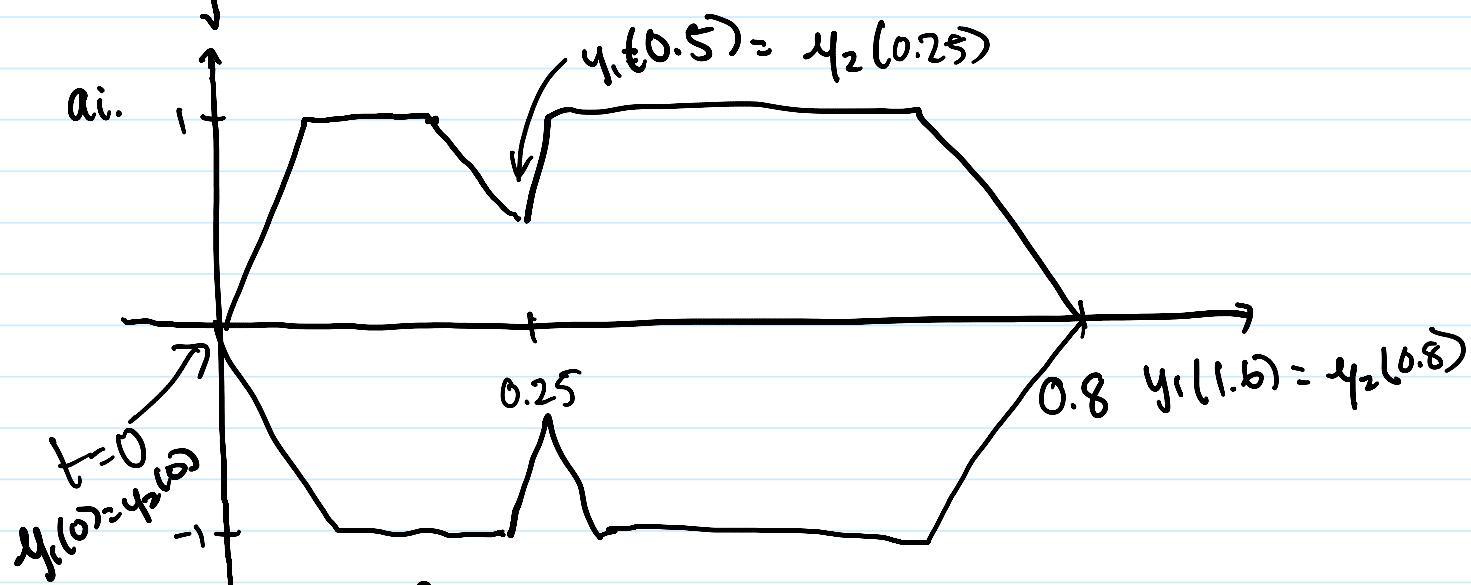
Lab2

Tuesday, October 20, 2020 11:39 PM

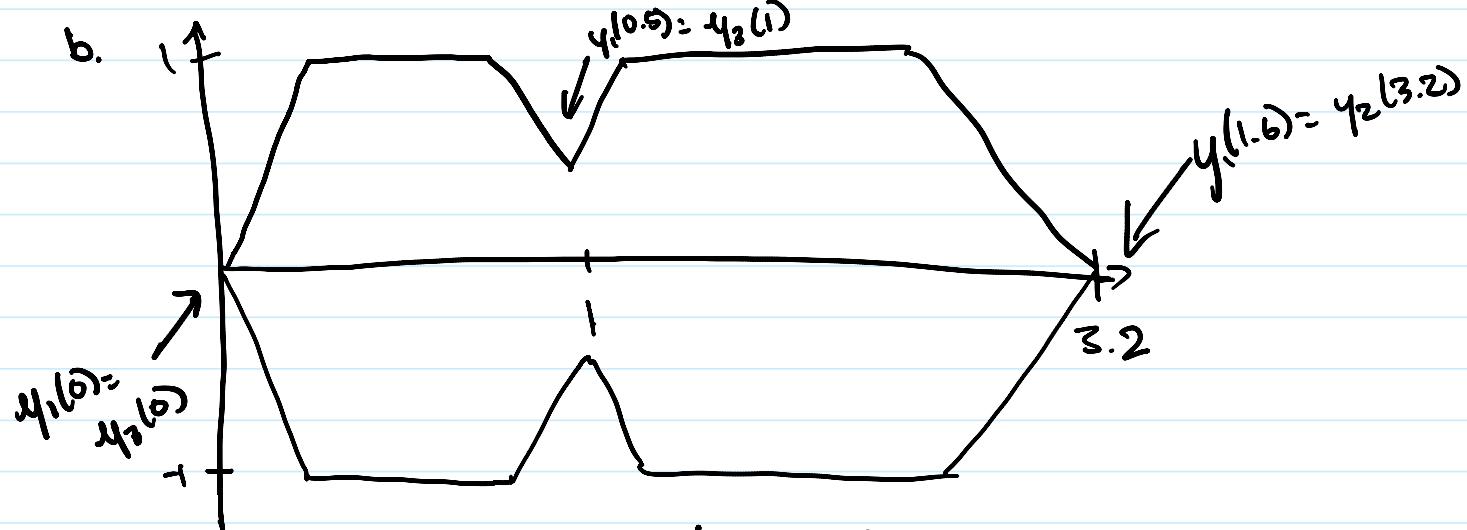
1.



ai.



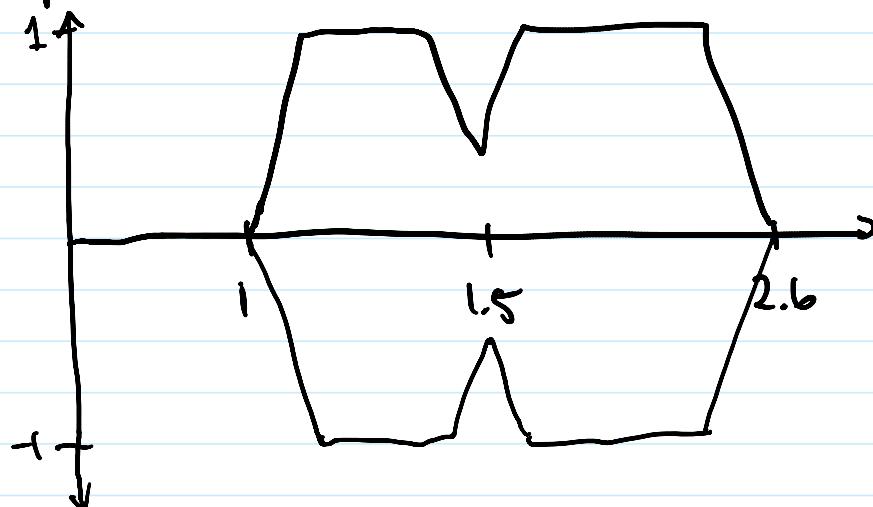
ii. higher frequency because of the shrink



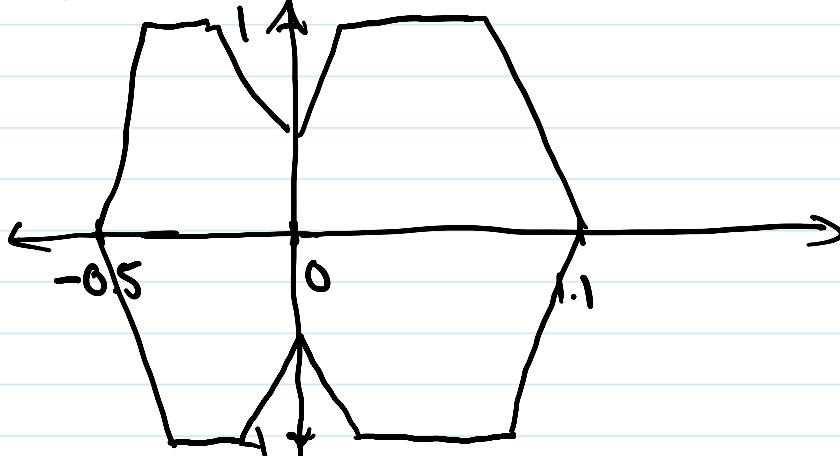
ii lower frequency because of the

ii lower frequency because of the stretch

c. $y(t-1)$



$y(t+0.5)$



2. If time was $[0, 3]$ then $y(0.5t)$ would require throwing away some signal

If implement $y(t) = x(2(t+1.5))$ with fixed time window, it doesn't matter which operation goes first

3a. x, fs, a
return y, t

return y_1, t

b. $y_1, t - y_1 = \text{timescale}(y, f_s, 2)$

$$4. x(t) = y\left(\frac{1}{3}(t+1)\right)$$